

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work  
 DRILL ☒ DEEPEN ☐ PLUG BACK ☐

1b. Type of Well  
 Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone ☐

2. Name of Operator  
Chuska Energy Company

3. Address of Operator  
3315 Bloomfield Highway, Farmington, NM 87401

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
 At surface 330' FSL 280' FWL *SWSW*

At proposed prod. zone Same

5. Lease Designation and Serial No.  
ML-41082

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name  
N/A

8. Farm or Lease Name  
Runway 2M

9. Well No.  
2M

10. Field and Pool, or Wildcat  
Wildcat Undiscovered

11. 30, Sec., T., R., N., or S14.  
 and Survey or Area

12. County or Parish  
San Juan

13. State  
Utah

14. Distance in miles and direction from nearest town or post office\*  
Eight Miles North of Aneth, Utah

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest dir. line, if any)  
280'

16. No. of acres in lease

17. No. of acres assigned to this well

18. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.  
600'

19. Proposed depth  
6299' AKAH

20. Rotary or cable tools  
Rotary

21. Elevations (Show whether DF, RT, GR, etc.)  
5236' GR/ 5249' KB

22. Approx. date work will start\*  
May 19, 1992

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4	8 5/8	24ppf	500'	k-55, 371 sx
7 7/8	5 1/2	15.5ppf	5450'	K-55.

SEE ATTACHED FOR 10 POINT DRILLING PLAN AND DETAILED DRILLING PROGRAM

RECEIVED

MAR 26 1992

DIVISION OF  
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signature [Signature]

Title Operations Manager

Date 3-10-92

(This space for Federal or State office use)

APR NO. 43-037-311680

Approval Date

Approved by

Conditions of approval, if any:

Title

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

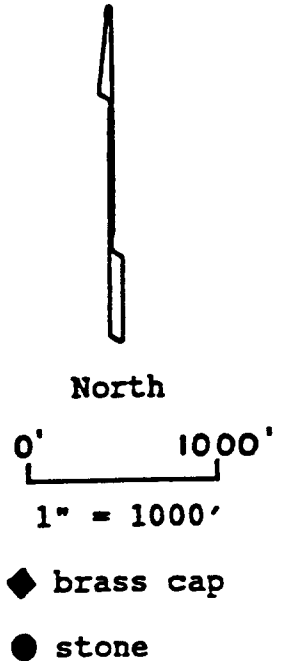
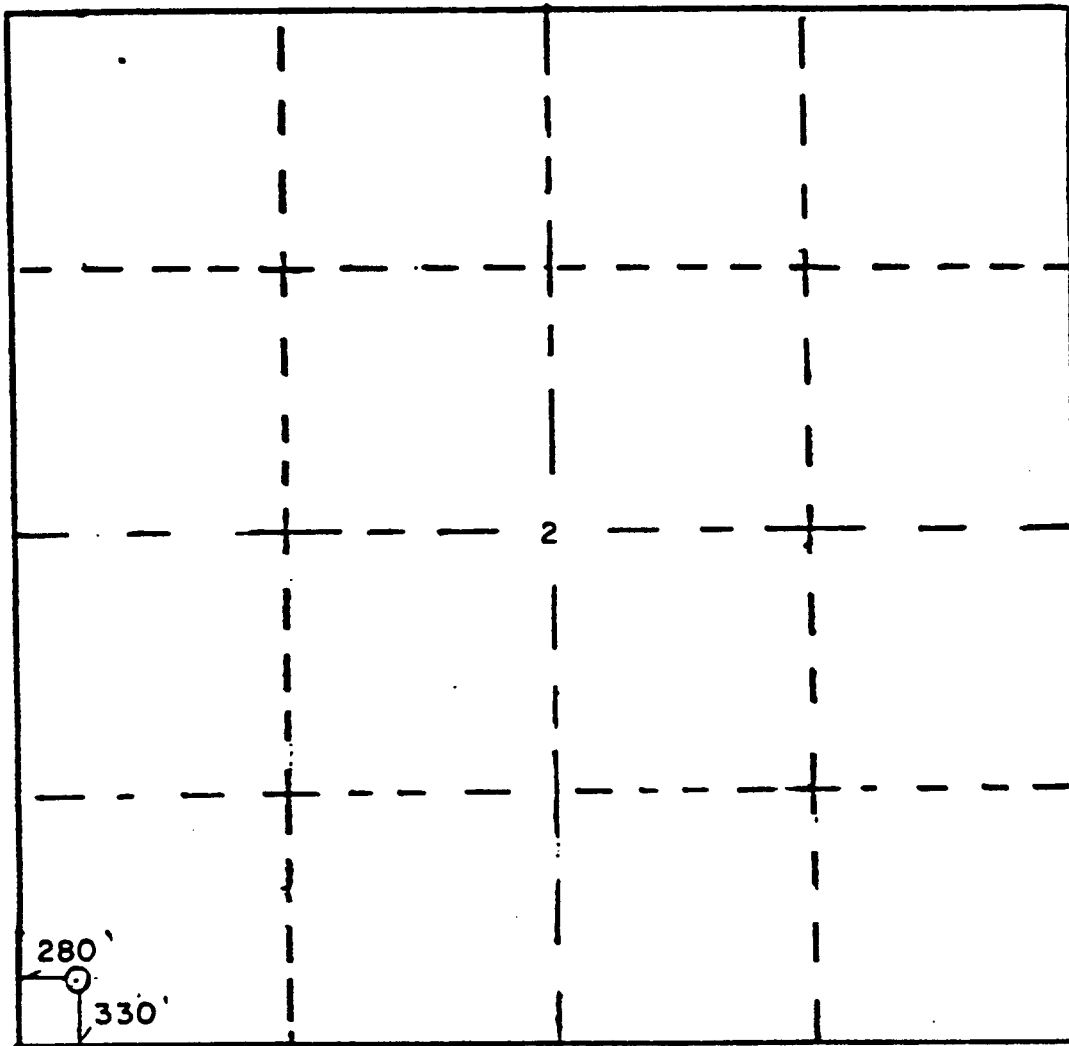
DATE: 6-2-92

BY: [Signature]

WELL SPACING 649-3-3

\*See Instructions On Reverse Side

Well Location Plat



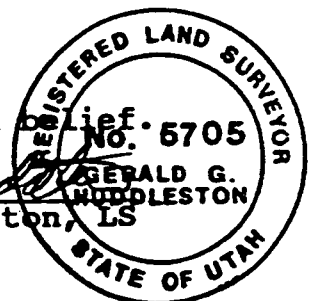
WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Runway 2-M  
330' FSL & 280' FWL  
Section 2, T.40 S., R.25 E., SLM  
San Juan County, UT  
5236' ground elevation  
State plane coordinates from seismic control:  
X = 2,683,678 Y = 250,530  
sta. 367 line 91 P-3(S)

The above is true and correct to my knowledge and belief.

10 December 1991

*Gerald G. Huddleston*  
Gerald G. Huddleston, LS



Huddleston Land Surveying, Drawer KK, Cortez, CO, 303-565-3330

# PLANVIEW SKETCH

Runway 2- M

East

laydown

North

1"=50'

45'

sta.

367

115'

5236

F2'

91 P-3(S)

C5'

access

35'

40'

30'

30'

175'

150'

F5'

85'

C7'

c

c'

b

F1'

100'

C9'

reserve  
pit

100'

C9'

F1'

a

F4'

a'

CROSS SECTION

Runway 2- M

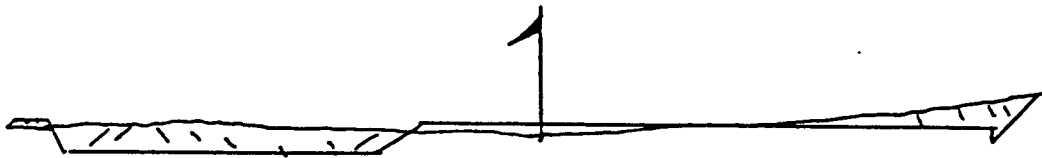
Cut /////  
Fill . . .

1"=50' vert. & horz.



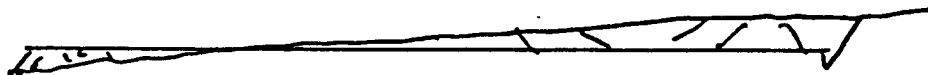
c

c'



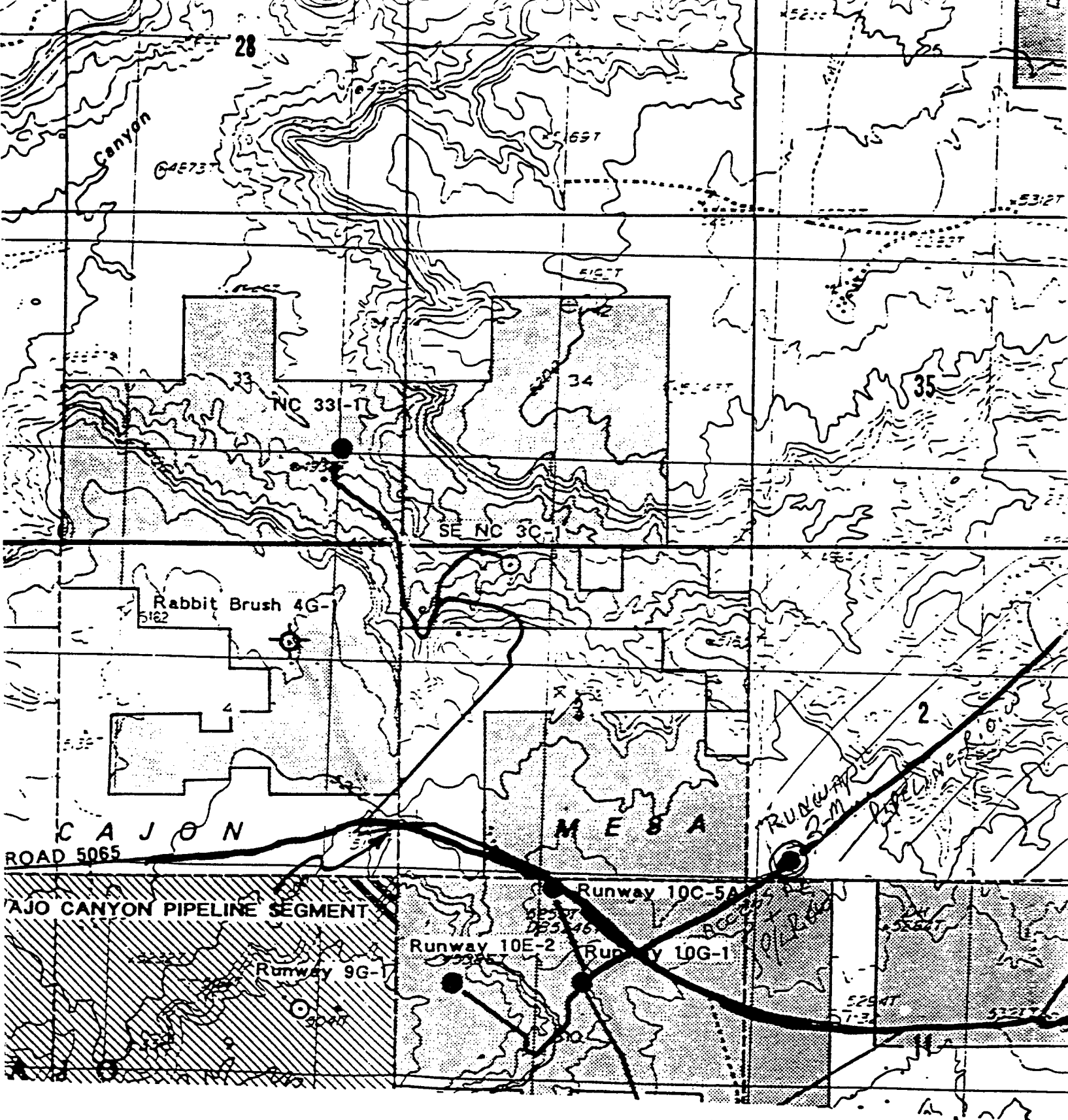
b

b'



a

a'



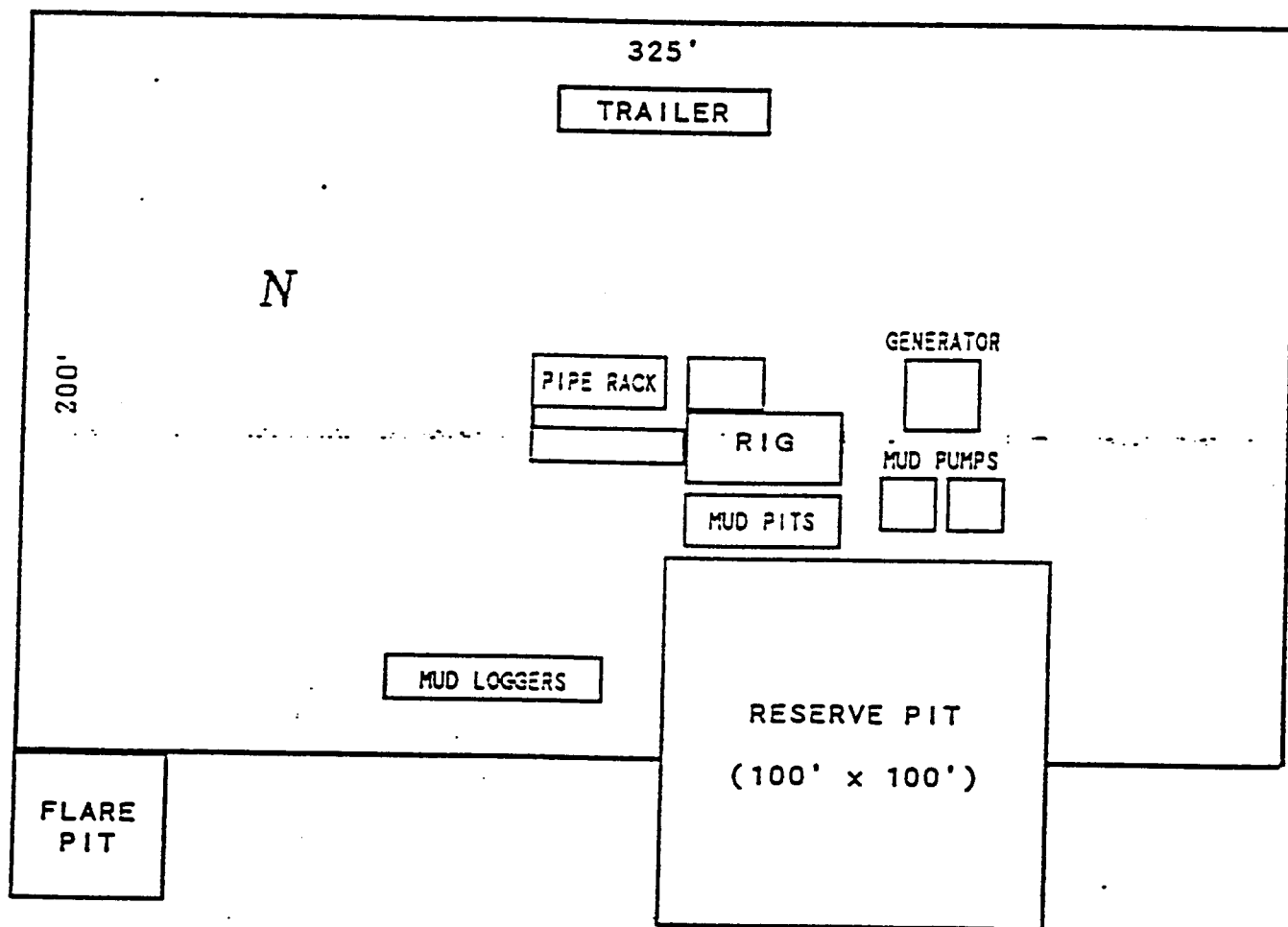


EXHIBIT "A"  
BLOWOUT PREVENTER

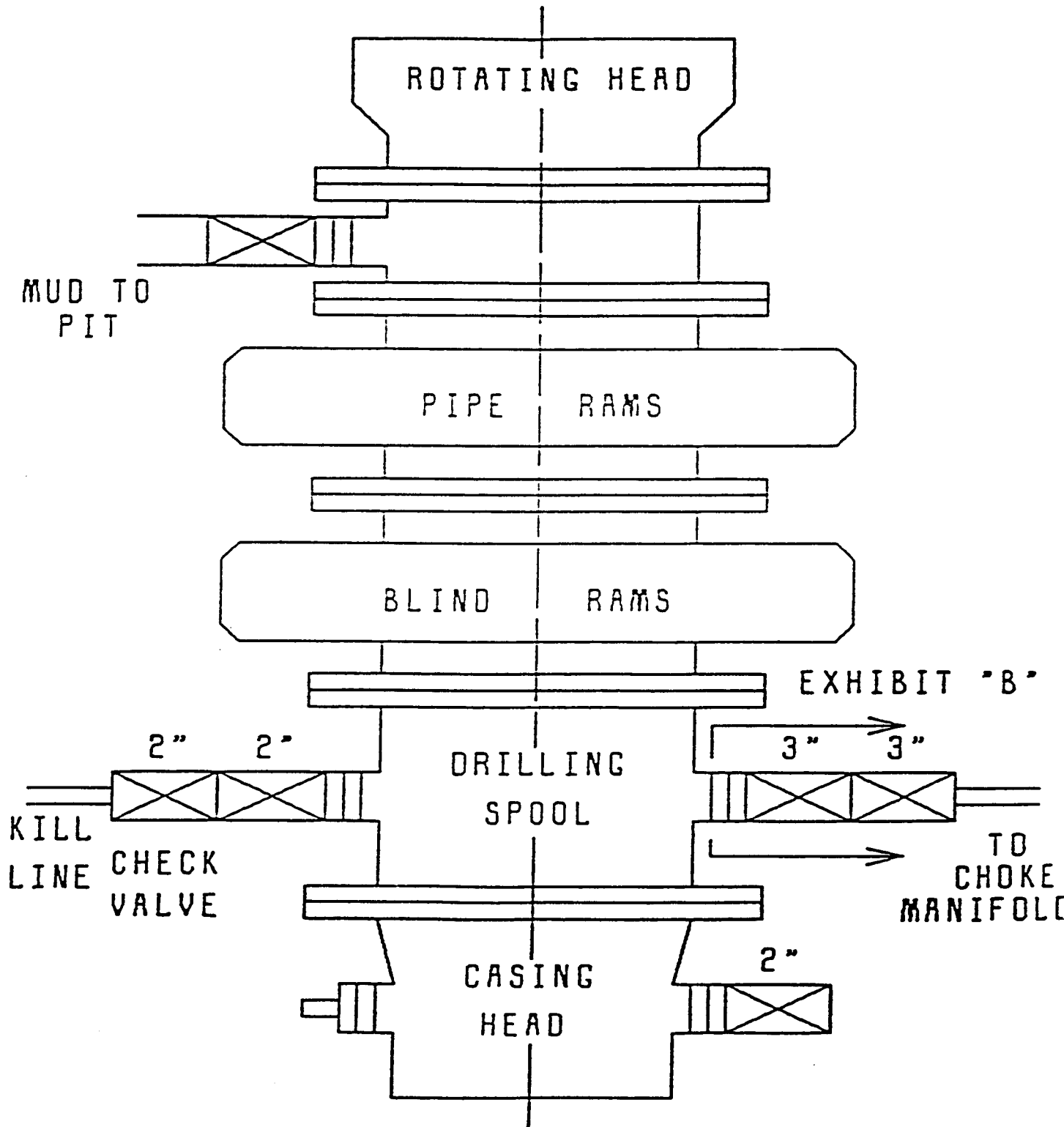
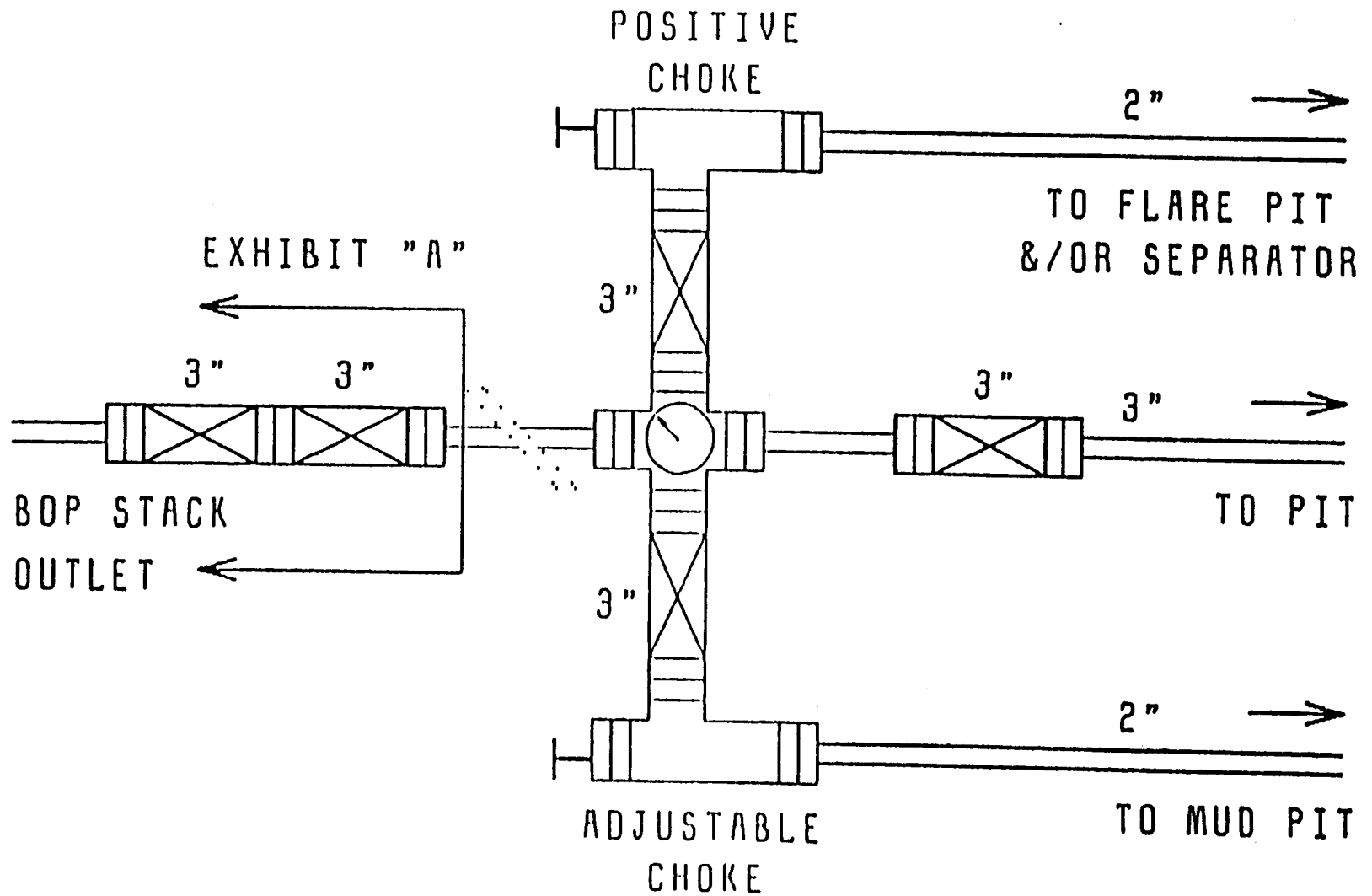


EXHIBIT "B"  
CHOKE MANIFOLD





CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Runway 2M

Section 2, Township 40 South, Range 25 East

330' FSL, 280' FWL

San Juan County, Utah

SURFACE FORMATION:

Geological name of surface formation: Morrison

ELEVATION:

Surface elevation is 5236' GR/ 5249' KB

ESTIMATED FORMATION TOPS

DEPTH	FORMATION	SUB-SEA ELEV.
1284'	Navajo	+3965'
1914'	Chinle	+3335'
3037'	DeChelly	+2212'
3127'	Organ Rock	+2122'
3824'	Cedar Mesa	+1425'
4924'	Hermosa	+325
5822'	upper Ismay	-573'
5955'	lower Ismay	-706' Secondary
6024'	Desert Crk	-775' Primary
6180'	Akah	-931'
6299'	Total Depth	-1050'

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE	500'	8 5/8"	24.0 ppf	K-55	STC
PROD.	5,450'	5 1/2"	15.5 ppf	K-55	STC

SURFACE CEMENTING:

371 sx Class 'G' Cement with 2% CaCl and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Slurry volume will be calculated at 100% excess over annular volume.

PRODUCTION CEMENTING:

First Stage

TD to 3500' (stage collar @ +3500'). Lead with 168 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with 100 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Total of 426 ft<sup>3</sup>.

#### SECOND STAGE

3500' to surface. Lead with 271 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with 100 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Total of 616 ft<sup>3</sup>.

NOTE: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

#### 5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per attached Exhibits "A" and "B". This will be a 10" x 900 series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

#### 6. PROPOSED MUD PROGRAM

Surface to 3500'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps are necessary for hole cleaning.

3500' to TD

Low solids, non-dispersed polymer system. Weight 8.6 - 8.8 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 cc or less prior to coring, logging or DSTS.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from TD - 4000'

Drill stem testing will be as per the wellsite geologists' recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 4000' to TD.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H<sub>2</sub>S gas is not anticipated, however, regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated be 18 days. Anticipated drilling will be March '92.

## DETAILED DRILLING PROGRAM

DATE: February 25, 1992

WELL NAME: Runway WELL NO.: 2M

LOCATION: Section 2-T40S-R25E  
330' FSL, 280' FWL  
San Juan County, Utah

ELEVATION: 5236'GR/5249'KB

TOTAL DEPTH: 5,249'KB

PROJECTED HORIZON: Primary Target is Desert Crk @ 6024'  
Secondary Target is lower Ismay @ 5955'

### DRILLING, CASING AND CEMENTING PROGRAM *shate*

1. Move in and rig up rotary tools. Notify BLM of time of spud.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to +/- 515'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1 degree at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, ST&C casing to TD. Cement with 371 sx (427 ft<sup>3</sup>) of Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 #/sk Celloflake (sufficient slurry volume to circulate cement to surface.)
5. W.O.C. a minimum of 4 hours prior to nipping up for BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2000 psig. Pressure test casing to 1500 psig for 30 min.
7. Drill out surface casing with 7/8" bit. Drill 7/8" hole to TD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5 degree @ TD, with maximum allowable rate of change to be 1 degree per 100'.

8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per well site geologist's recommendation.
9. If the well is determined to be productive run 5 1/2" casing to TD., as per casing program in 10 Point Drilling Plan. Set stage cementing collar at +/- 3,500 ft. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-Point Drilling Plan.
10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
11. If well is non-productive it will be plugged and abandoned as per State, BLM, and Navajo Tribal stipulations.

Runway 2M  
Section 2, T40 South, R25 East  
330' FSL, 280' FWL  
San Juan County, Utah

**GENERAL COMPLETION PROCEDURE:**

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

**PLUGGING AND ABANDONMENT:**

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and BIA requirements.

Runway 2M  
Section 2, T40 South, R25 East  
330' FSL, 280' FWL  
San Juan County, Utah

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed to Montezuma Creek. Existing roads will be maintained, as needed, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. 2300' ft of new road will be constructed for access to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION MATERIAL

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined as required, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

After drilling operations are completed, the location and surrounding area will be cleared of all remaining debris and materials not required for production. Compacted areas will be plowed or ripped to a depth of 12 to 16 inches before reseeding. The existing reserve pit will be used. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

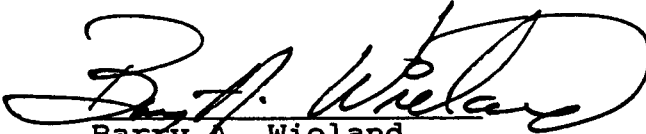


11. OPERATORS REPRESENTATIVE

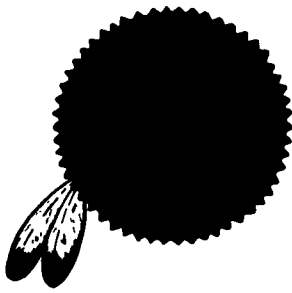
CHUSKA ENERGY COMPANY  
3315 BLOOMFIELD HIGHWAY  
FARMINGTON, NM 87401  
Barry A. Wieland

12. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.



Barry A. Wieland  
Operations Engineer



# CHUSKA ENERGY COMPANY

1775 SHERMAN STREET - SUITE 1800 • DENVER, COLORADO 80203 • PHONE: (303) 869-7021

March 27, 1992

**RECEIVED**  
MAR 30 1992

UTAH BOARD OF OIL, GAS AND MINING  
Suite 350, 3 Triad Center  
355 West North Temple  
Salt Lake City, Utah 84180-1203

**DIVISION OF  
OIL, GAS & MINING**

Attn: Mr. Ron Firth

Re: Request for Administrative Approval  
Exception Location, Chuska Energy Co.  
Runway 2-M Well, Section 2, T40S-R25E  
San Juan County, Utah

Gentlemen:

Chuska Energy Company plans to drill our Runway 2-M well at an "exception location" in the SW/4 of SW/4 of Section 2, Township 40 South, Range 25 East, SLM in San Juan County, Utah. The specific location is:

330' FSL and 280' FWL of said Section 2, T40S-R25E

The plat attached hereto as Exhibit "A" depicts those owners affected by the above reference well. As indicated on Exhibit "A", the State of Utah owns the oil and gas mineral rights under the proposed drillsite. These oil and gas mineral rights covering the drillsite are currently leased to OXY USA, INC. (formally Cities Service Oil & Gas Corporation) under State Lease Number ML-41082, dated March 1, 1984. By Farmout Agreement dated August 23, 1991, as amended, OXY USA, Inc., has assigned to Chuska Energy Company the exclusive right to conduct drilling operations upon said leased premises in order to earn an interest in the subject lease. Also, attached hereto and marked Exhibit "D" is a Designation of Agent or Operator form executed by OXY USA, Inc.

The three direct and diagonal quarter sections which could be affected by drainage from the proposed well (hereinafter referred to as "Offset Tracts") are described as follows:

TOWNSHIP 40 SOUTH, RANGE 25 EAST, SLM:

Section 3: SE/4 SE/4

Section 10: NE/4 NE/4

Section 11: NW/4 NW/4

The oil and gas rights to said Offset Tracts are governed by that certain Operating Agreement dated February 18, 1987 between Chuska Energy Company (Operator) and the Navajo Tribe of Indians (Mineral Owner). By letter dated March 12, 1992, copy attached hereto as Exhibit "C", the Navajo Tribe has granted its consent to this proposed drillsite, provided a Communitization Agreement is established in the event the well is completed as a producing well.

Utah Board of Oil, Gas and Mining  
March 17, 1992  
Page 2

In as much as Utah Board of Oil, Gas and Mining Rule No. R615-3-2 governs the location of drillsites on the subject State of Utah lease, Chuska Energy Company hereby request administrative approval by the Utah Board of Oil, Gas and Mining to the above referenced drillsite location as an exception to its Rule No. R615-3-2.

As indicated on the Geological Plat attached hereto as Exhibit "B", it is necessary to position this proposed well at the above referenced location in order to maximize the probability of encountering hydrocarbon substances in commercial quantities and to prevent waste by the drilling of uneconomic locations. Based on current information available to us, we do not feel an optimum drillsite can be located within the window of tolerance as specified by Rule No. R615-3-2.

Please acknowledge your administrative approval of this request for an exception to Rule No. R615-3-2 by returning to Chuska Energy Company a copy of this letter with the appropriate approval of the State of Utah indicated thereon.

**RECEIVED**

MAR 30 1992

**DIVISION OF  
OIL, GAS & MINING**

Sincerely,

*William C. Mitchell*  
William C. Mitchell  
Regional Land Manager

STATE OF UTAH APPROVAL AND DATE: \_\_\_\_\_

cc: Oxy U.S.A. Inc.

UTAH.327  
sjp/WCM

**CHUSKA ENERGY COMPANY**

LAW OFFICES  
**PRUITT, GUSHEE & BACHTELL**

ROBERT G. PRUITT, JR.  
OLIVER W. GUSHEE, JR.  
THOMAS W. BACHTELL  
A. JOHN DAVIS, III  
JOHN W. ANDERSON  
FREDERICK M. MACDONALD  
ANGELA L. FRANKLIN  
K. ALLEN FARBER

SUITE 1850 BENEFICIAL LIFE TOWER  
SALT LAKE CITY, UTAH 84111  
(801) 531-8446

TELECOPIER (801) 531-8468  
OR (801) 533-9223

OF COUNSEL  
MICHAEL F. JONES  
BRENT A. BOHMAN

March 30, 1992

**Hand-Delivered**

Mr. Ron Firth, Assistant Director  
Utah Division of Oil, Gas & Mining  
Suite 350, No. 3 Triad Center  
355 West North Temple  
Salt Lake City, Utah 84180

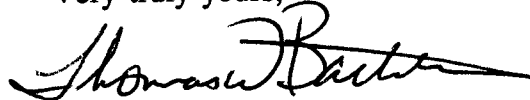
Re: Request for Administrative Approval Exception  
Location, Chuska Energy Co. Runway 2-M Well,  
Section 2, T40S-R25E, San Juan County, Utah

Dear Mr. Firth:

Enclosed please find the original request for exception location of Chuska Energy Company with respect to the above reference well and lands. The lands are State owned covered by State Lease ML-41082. Chuska would like to begin operations for drilling the well on April 1, 1992. Therefore, your expedited attention to this matter would be greatly appreciated.

By this transmittal I am also forwarding a copy of the Request to Tom Mitchell, Esq., for his review and consultation with you, as suggested by you. If either you or Mr. Mitchell perceive any problem with the enclosed Request please advise at your earliest convenience.

Very truly yours,



Thomas W. Bachtell

TWB:lmg  
1450.00

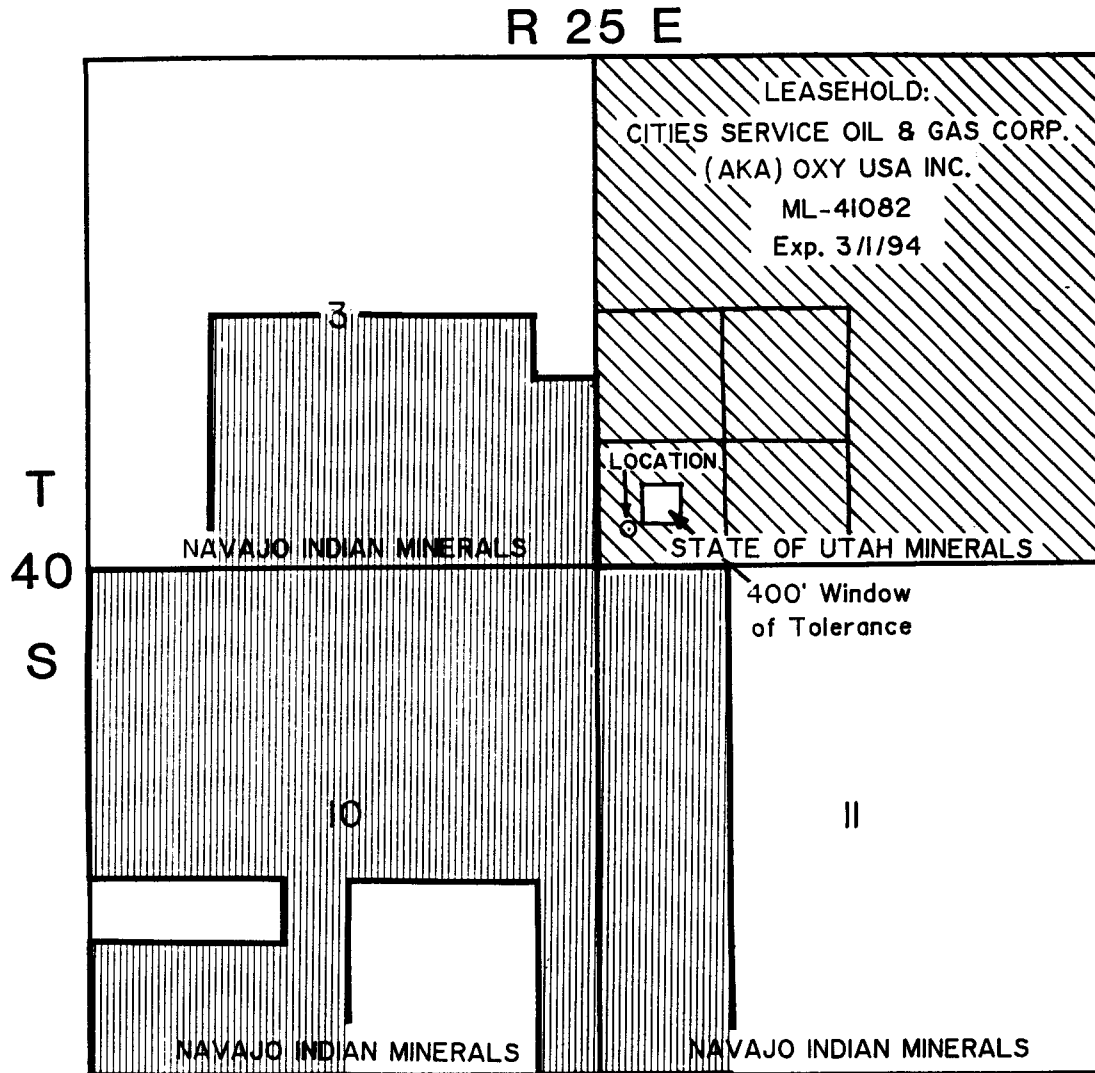
cc: Tom Mitchell, Esq.  
William C. Mitchell, Regional Land Manager

**RECEIVED**

**MAR 30 1992**

**DIVISION OF  
OIL, GAS & MINING**

# EXHIBIT "A" OWNERSHIP MAP





**RECEIVED**

MAR 30 1992

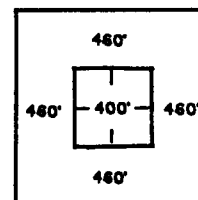
DIVISION OF  
OIL, GAS & MINING

## PROPOSED WELL LOCATION

CHUSKA ENERGY CO., RUNWAY 2-M  
330' FSL & 280' FWL  
SECTION 2, T40S-R25E  
SAN JUAN COUNTY, UTAH

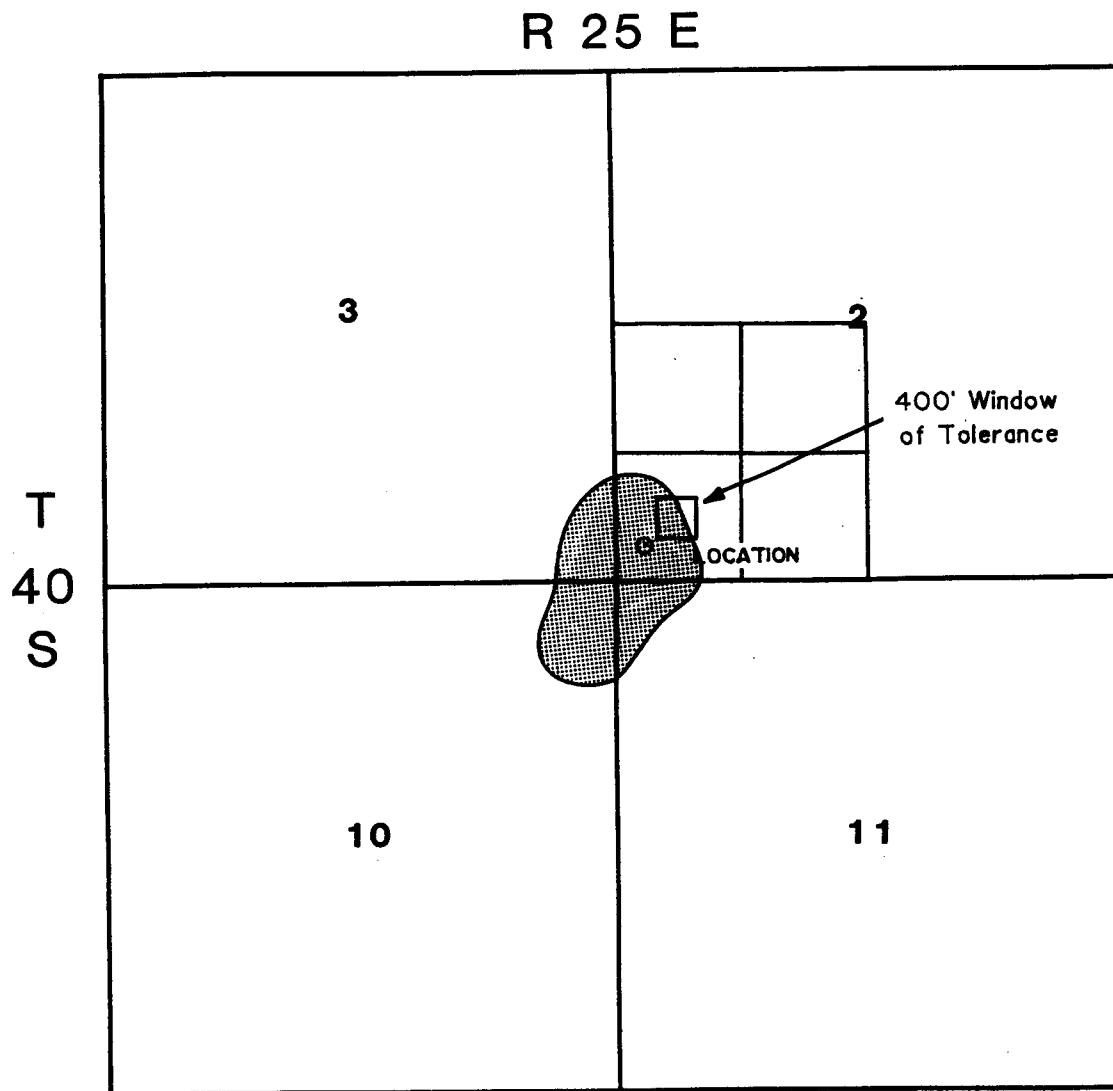
-  Subject to Chuska  
Operating with Navajo Tribe
-  Acreage Farmed-in by  
Chuska from OXY USA INC.

ENLARGEMENT  
400' Window of Tolerance



SCALE: 1" = 2000'

# EXHIBIT "B" Geologic Plat



## PROPOSED WELL LOCATION

CHUSKA ENERGY CO., RUNWAY 2-M  
330' FSL & 280' FWL  
SECTION 2, T40S-R25E  
SAN JUAN COUNTY, UTAH

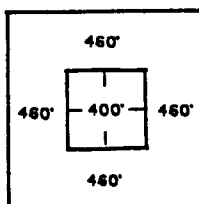
**RECEIVED**

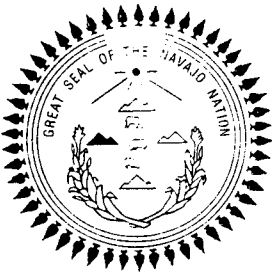
MAR 30 1992

DIVISION OF  
OIL, GAS & MINING

### ENLARGEMENT

400' Window of Tolerance





**THE  
NAVAJO  
NATION**

P.O. BOX 308 • WINDOW ROCK, ARIZONA 86515 • (602) 871-4941

PETERSON ZAH  
PRESIDENT

MARSHALL PLUMMER  
VICE PRESIDENT

March 12, 1992

Mr. William C. Mitchell  
Regional Land Manager  
Chuska Energy Company  
1775 Sherman Street, Suite 1800  
Denver, Colorado 80203

RE: Chuska Energy Company Runway 2-M Well  
State of Utah Lease Number ML - 41082  
Section 2, T40S, R25E, San Juan Co.

Dear Mr. Mitchell:

This is in response to your letter of March 11, 1992, in which you requested a formal letter of consent to the drilling of the proposed Runway 2-M well. We understand that the proposed location (330' FSL and 280' FWL, Section 2, T40S, R25E) is within State of Utah Lease Number ML 41082, but is sufficiently close to the section boundaries that a producing well is likely to drain Navajo Nation oil and gas. Navajo Nation acreage within the radius of probable drainage has been designated by Chuska in drilling blocks pursuant to the 1987 Operating Agreement. The Navajo Nation Minerals Department approves the nonstandard well location subject to the conditions listed below:

- If a drillhole is completed as a producing well, a communitization or other pooling agreement must be negotiated between the operator, the Nation and the mineral interest owner of the lands in Section 2. The participation factors would be calculated to each participant's satisfaction using standard oil field practices based upon engineering, seismic and well test data used to define the reservoir characteristics.
- Any portion of of the lands subject to that certain Operating Agreement dated July 20, 1987 between the Navajo Nation and Chuska Energy Company not included within the communitized area will be segregated from the portion included within the communitized area. The communitized area will be restricted to acreage reasonably considered to cover the radius of drainage of the proposed well. Upon expiration of the primary term of the 1987 operating agreement, the well will hold by

EXHIBIT "C"

RECEIVED

MAR 18 1992

DENVER - LAND

RECEIVED

MAR 30 1992

DIVISION OF  
OIL, GAS & MINING

virtue of production only that acreage included within  
the communitized area.

If you have any questions, please do not hesitate to contact me at  
(602) 871-6587.

Sincerely,

MINERALS DEPARTMENT

  
Akhtar Zaman  
Director

xc: Mrs. Genni Denetsone, Real Property Officer, BIA-NAO

**RECEIVED**

MAR 30 1992

DIVISION OF  
OIL, GAS & MINING



## EXHIBIT "D"

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

RECEIVED

MAR 30 1992

## DESIGNATION OF AGENT OR OPERATOR - FORM 5

DIVISION OF

OIL, GAS &amp; MINING

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: State of Utah, dated effective 3/1/84LEASE NUMBER: ML-41082

and hereby designates

NAME: Chuska Energy CompanyADDRESS: 1775 Sherman St., Suite 1800, Denver, CO 80203

as his agent/operator, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to (describe acreage to which this designation is applicable):

In the event a facsimile of this Designation of Agent or Operator is submitted to the Board of Oil, Gas and Mining, then said facsimile shall for all purposes be deemed an original.

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees promptly to notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation 3-24-92By: J. P. Thomas

(signature)

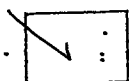
Company Oxy-USA Inc.Title: J. P. Thomas, Attorney-in-FactAddress Box 12021Bakersfield, CA 93389-2021Phone: (805) 321-6000

OPERATOR Chuska Energy Co N 9090 DATE 4-7-90  
WELL NAME Reynolds M  
SEC S4S40 T 40S R 05E COUNTY San Juan

43-037-31680  
API NUMBER

State (3)  
TYPE OF LEASE

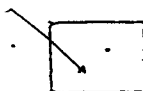
CHECK OFF:



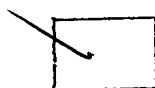
PLAT.



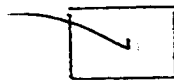
BOND



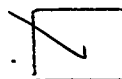
NEAREST  
WELL



LEASE



FIELD



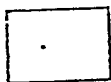
POTASH OR  
OIL SHALE

PROCESSING COMMENTS:

No other producing well within Sec. 0.  
Water Permit 09-1704 (TL64796) or 09-1706 (TL64795)  
Permit 4-7-90

APPROVAL LETTER:

SPACING:

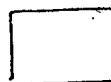


R615-2-3

N/A  
UNIT



R615-3-2



N/A  
CAUSE NO. & DATE



R615-3-3

CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 10-4-93

STIPULATIONS:

~~1. Notify State Division of Spud & Surface  
Casing cement job at least 24 hrs prior to job.~~  
Provide  
1 Notification to the Division when drilling  
operations commence and at least 24 hour  
notification prior to commencing surface casing  
cementing operations.

LAW OFFICES  
**PRUITT, GUSHEE & BACHTELL**

ROBERT G. PRUITT, JR.  
OLIVER W. GUSHEE, JR.  
THOMAS W. BACHTELL  
A. JOHN DAVIS, III  
JOHN W. ANDERSON  
FREDERICK M. MACDONALD  
ANGELA L. FRANKLIN  
K. ALLEN FARBER

SUITE 1850 BENEFICIAL LIFE TOWER  
SALT LAKE CITY, UTAH 84111  
(801) 531-8446

TELECOPIER (801) 531-8468  
OR (801) 533-9223

OF COUNSEL  
MICHAEL F. JONES  
BRENT A. BOHMAN

June 1, 1992

**HAND DELIVERED**

Mr. Ron Firth, Assistant Director  
Utah Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
355 West North Temple  
Salt Lake City, Utah 84180

**RECEIVED**

JUN 01 1992

DIVISION OF  
OIL GAS & MINING

Re: Request for Administrative Approval Exception Location, Chuska  
Energy Company Runway 2-M Well, Section 2, T40S-R25E, SLM,  
San Juan County, Utah

Dear Ron:

Enclosed please find the following letters:

1. Original letter dated May 6, 1992 addressed to you from William C. Mitchell, Regional Land Manager for Chuska Energy Company;
2. Copy of a letter dated May 26, 1992 addressed to me from Edward W. Bonner, Minerals Section Manager, Division of State Lands and Forestry.

The first letter is in response to your request for additional information regarding the reasons that Chuska believes the chosen well location is the optimum site. As you can see, Chuska conducted a high density CDP Swath seismic program across the geological feature and has based its geological analysis on this seismic data.

The second letter shows that the Utah Division of State Lands and Forestry has now accepted the Statewide Bond No. B03570 of Double R, Inc., Sunfield Energy Company, and Chuska Energy, Inc.

Mr. Ron Firth  
June 1, 1992  
Page 2

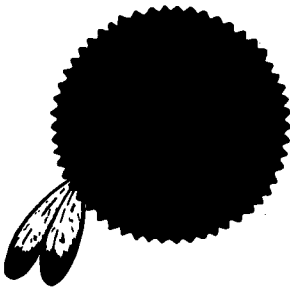
I believe this is responsive to the conditions we previously discussed that postponed your administrative approval of Chuska's exception location request.

Very truly yours,



Thomas W. Bachtell

TWB:cs  
1458.00  
enclosures  
\\1458\correspd\Firth-2.ltr



# CHUSKA ENERGY COMPANY

1775 SHERMAN STREET - SUITE 1800 • DENVER, COLORADO 80203 • PHONE: (303) 863-7021

FAX #: (303) 863-7210

May 6, 1992

Mr. Ron Firth, Assistant Director  
Utah Division of Oil, Gas & Mining  
Suite 350, No. 3 Triad Center  
355 West North Temple  
Salt Lake City, Utah 84180

Re: Chuska Energy - Runway 2-M Well  
SW/4 SW/4 Section 2, T40S-R25E  
San Juan County, Utah

Dear Mr. Firth:

With regard to Chuska Energy Company's March 27, 1992 request for an Exception to Rule No. R615-3-2 relative to the captioned well, you have requested that (1) Chuska secure an oil and gas operator's bond to cover operations on State of Utah lands and file copy of same with the Utah Division of State Lands and Forestry and (2) Chuska furnish your office with a statement of the scientific basis upon which the captioned drillsite has been selected.

Please be advised that Chuska has recently filed the appropriate bond with the Utah Division of State Lands & Forestry. With regard to the selection of the drillsite for the captioned well, Chuska has conducted a high density CDP Swath seismic program across this geological feature and has based its geological analysis on this seismic data.

Please do not hesitate to give me a call if you have any further question pertaining to our request for administrative approval of this Exception Location.

Sincerely,

*William C. Mitchell*  
William C. Mitchell  
Regional Land Manager



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF STATE LANDS AND FORESTRY

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Richard J. Mitchell  
Division Director

355 West North Temple  
3 Triad Center, Suite 400  
Salt Lake City, Utah 84180-1204  
801-538-5508  
801-355-0922 (Fax)

May 26, 1992

Double R, Inc.  
Sunfield Energy Company  
Chuska Energy, Inc.  
c/o Thomas W. Bachtell  
Pruitt, Gushee & Bachtell  
Beneficial Life Tower, Suite 1850  
Salt Lake City, UT 84111

Dear Mr. Bachtell:

RE: Acceptance of Statewide Bond of Lessee Bond No. B03570

This letter is to confirm that on May 26, 1992, the Director of the Division of State Lands and Forestry accepted an \$80,000 State of Utah Statewide Bond of Lessee, Bond No. B03570, with Double R, Inc., and its wholly owned subsidiaries Sunfield Energy Company and Chuska Energy, Inc., as principal and Underwriters Indemnity Company as surety.

If you have any questions concerning this matter, please contact this office.

Sincerely,

EDWARD W. BONNER  
MINERALS SECTION MANAGER

tdw



LAW OFFICES  
**PRUITT, GUSHEE & BACHTTELL**  
SUITE 1850 BENEFICIAL LIFE TOWER  
SALT LAKE CITY, UTAH 84111  
(801) 531-8446

ROBERT G. PRUITT, JR.  
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K. ALLEN FARBER

TELECOPIER (801) 531-8468  
OR (801) 533-9223

OF COUNSEL  
MICHAEL F. JONES  
BRENT A. BOHMAN

June 1, 1992

**COPY**

**HAND DELIVERED**

Mr. Ron Firth, Assistant Director  
Utah Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
355 West North Temple  
Salt Lake City, Utah 84180

**RECEIVED**

JUN 01 1992

DIVISION OF  
OIL GAS & MINING

Re: Request for Administrative Approval Exception Location, Chuska Energy Company Runway 2-M Well, Section 2, T40S-R25E, SLM, San Juan County, Utah

Dear Ron:

Enclosed please find the following letters:

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2. Copy of a letter dated May 26, 1992 addressed to me from Edward W. Bonner, Minerals Section Manager, Division of State Lands and Forestry.

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Mr. Ron Firth  
June 1, 1992  
Page 2

I believe this is responsive to the conditions we previously discussed that postponed your administrative approval of Chuska's exception location request.

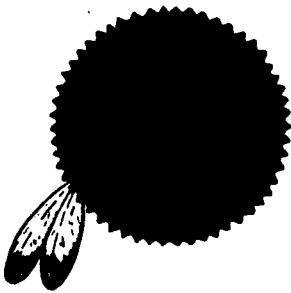
Very truly yours,

A handwritten signature in black ink, appearing to read "Tom", with a long horizontal flourish extending to the right.

Thomas W. Bachtell

TWB:cs  
1458.00  
enclosures  
\\1458\corresp\Firth-2.ltr





# CHUSKA ENERGY COMPANY

1775 SHERMAN STREET - SUITE 1800 • DENVER, COLORADO 80203 • PHONE: (303) 863-7021

FAX #: (303) 863-7210

May 6, 1992

Mr. Ron Firth, Assistant Director  
Utah Division of Oil, Gas & Mining  
Suite 350, No. 3 Triad Center  
355 West North Temple  
Salt Lake City, Utah 84180

Re: Chuska Energy - Runway 2-M Well  
SW/4 SW/4 Section 2, T40S-R25E  
San Juan County, Utah

Dear Mr. Firth:

With regard to Chuska Energy Company's March 27, 1992 request for an Exception to Rule No. R615-3-2 relative to the captioned well, you have requested that (1) Chuska secure an oil and gas operator's bond to cover operations on State of Utah lands and file copy of same with the Utah Division of State Lands and Forestry and (2) Chuska furnish your office with a statement of the scientific basis upon which the captioned drillsite has been selected.

Please be advised that Chuska has recently filed the appropriate bond with the Utah Division of State Lands & Forestry. With regard to the selection of the drillsite for the captioned well, Chuska has conducted a high density CDP Swath seismic program across this geological feature and has based its geological analysis on this seismic data.

Please do not hesitate to give me a call if you have any further question pertaining to our request for administrative approval of this Exception Location.

Sincerely,

*William C. Mitchell*  
William C. Mitchell  
Regional Land Manager



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF STATE LANDS AND FORESTRY

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Richard J. Mitchell  
Division Director

355 West North Temple  
3 Triad Center, Suite 400  
Salt Lake City, Utah 84180-1204  
801-538-5508  
801-355-0922 (Fax)

May 26, 1992

Double R, Inc.  
Sunfield Energy Company  
Chuska Energy, Inc.  
c/o Thomas W. Bachtell  
Pruitt, Gushee & Bachtell  
Beneficial Life Tower, Suite 1850  
Salt Lake City, UT 84111

Dear Mr. Bachtell:

RE: Acceptance of Statewide Bond of Lessee Bond No. B03570

This letter is to confirm that on May 26, 1992, the Director of the Division of State Lands and Forestry accepted an \$80,000 State of Utah Statewide Bond of Lessee, Bond No. B03570, with Double R, Inc., and its wholly owned subsidiaries Sunfield Energy Company and Chuska Energy, Inc., as principal and Underwriters Indemnity Company as surety.

If you have any questions concerning this matter, please contact this office.

Sincerely,

EDWARD W. BONNER  
MINERALS SECTION MANAGER

tdw



Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

June 2, 1992

Chuska Energy Company  
3315 Bloomfield Highway  
Farmington, New Mexico 87401

Gentlemen:

Re: Runway 2M Well, 330 feet from the south line, 280 feet from the west line, SW 1/4 SW 1/4, Section 2, Township 40 South, Range 25 East, San Juan County, Utah

Pursuant to Utah Admin. R. 649-3-3 and Utah Admin. R. 649-3-4, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Provide notification to the Division when drilling operations commence and at least 24 hour notification prior to commencing surface casing cementing operations.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

Page 2  
Chuska Energy Company  
Runway 2M Well  
June 2, 1992

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site should be submitted to the local health department. These drilling operations and any subsequent well operations should be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801)538-6159.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-037-31680.

Sincerely,



R.D. Firth  
Associate Director, Oil and Gas

ldc  
Enclosures  
cc: Bureau of Land Management  
J.L. Thompson  
WO11

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: CHUSKA 43-037-31680

WELL NAME: RUNWAY 2-M

Section 2 Township 40S Range 25E County SAN JUAN

Drilling Contractor AZTEC

Rig # 222

SPUDDED: Date 8/22/92

Time 1:00 AM

How ROTARY

**CONFIDENTIAL**

Drilling will commence 8/22/92

Reported by LARRY CHAMBERS

Telephone #

Date 8/21/92 SIGNED FRM

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR CHUSKA ENERGY COMPANY  
ADDRESS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OPERATOR ACCT. NO. N 9290

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11413	43-037-31680	RUNWAY 2M	SWSW	2	40S	25E	SAN JUAN	8-22-92	
WELL 1 COMMENTS: ENTITY ADDED 9-18-92. <i>je</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entity (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

L. ROMERO (DOGM)  
Signature \_\_\_\_\_  
ADMIN. ANALYST 9-18-92  
Title \_\_\_\_\_ Date \_\_\_\_\_  
Phone No. ( ) \_\_\_\_\_

Frank,

Well File

9-3-92

I talked w/ Berry Wheelin  
of Chuska today. They are going  
to PTA the #2M well starting  
this afternoon. I reviewed the  
plugging program with him, hope  
it's ok. Attached is a diagram  
showing the proposed plugs.

Dil

Chuska

Runway 2M

Sec 2-40S-25E

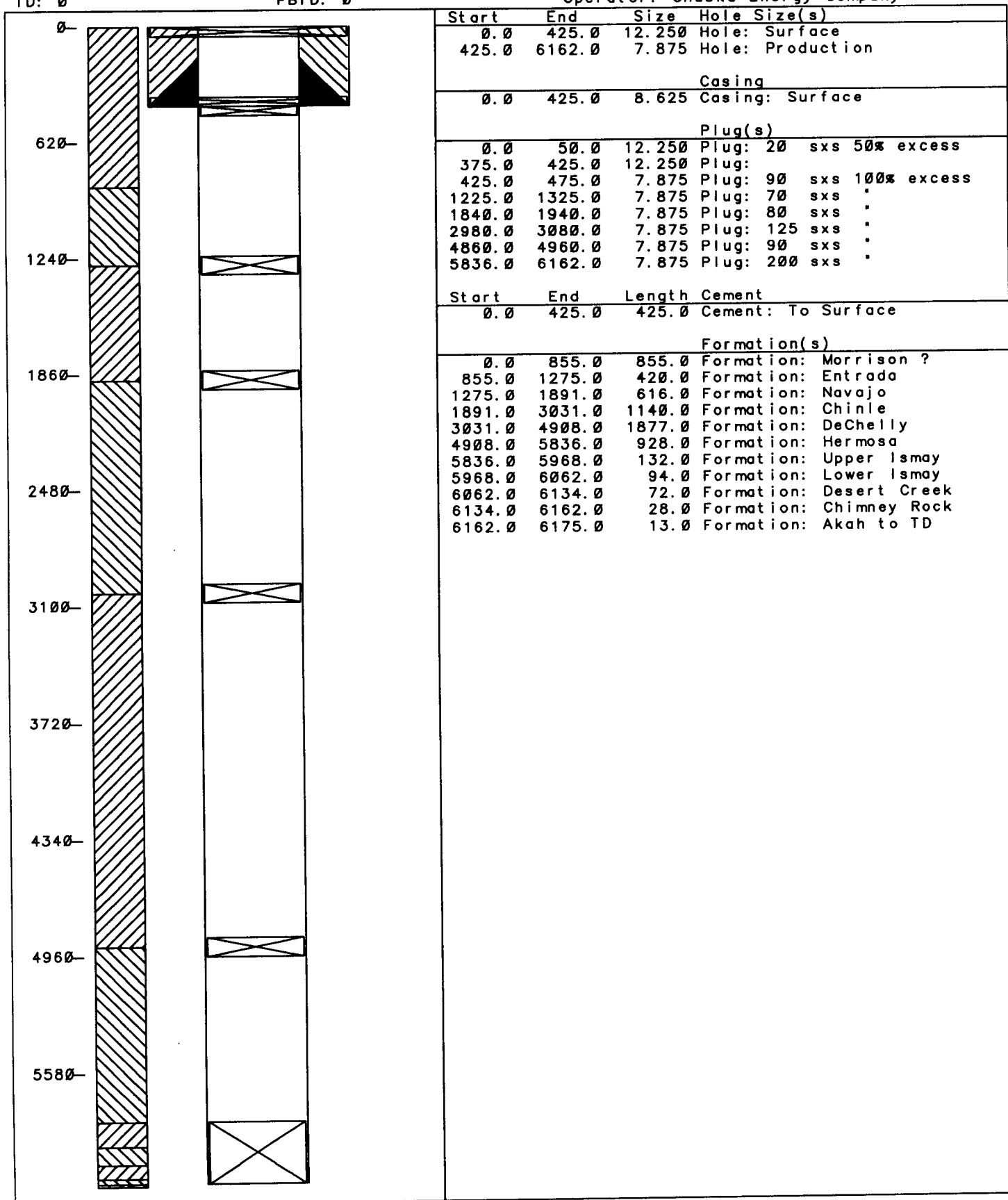
API #3-037-31680

Lease: ML-41082  
Well #: 2M

Spud Date: 08/22/1992  
KB: 5249  
TD: 0

Comp Date: / /  
ELEV: 5236  
PBD: 0

API #: 43-037-31680-  
Location: Sec 2 Twn 40S Rng 25E  
County: San Juan  
State: Utah  
Field: Wildcat  
Operator: Chuska Energy Company





STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work  
 DRILL ☒ DEEPEN ☐ PLUG BACK ☐

1b. Type of Well  
 Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone ☐

2. Name of Operator  
 Chuska Energy Company

3. Address of Operator  
 3315 Bloomfield Highway, Farmington, NM 87401

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
 At surface 330' FSL 280' FWL *SWSW*

At proposed prod. zone Same

5. Lease Designation and Serial No.  
 ML-41082

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name  
 N/A

8. Farm or Lease Name  
 Runway 2M

9. Well No.  
 2M

10. Field and Pool, or Wildcat  
 Wildcat Undesignated

11. 30. Sec., T., R., N., or S.W. and Survey or Area  
 2-40S-25E

12. County or Parish  
 San Juan

13. State  
 Utah

14. Distance in miles and direction from nearest town or post office  
 Eight Miles North of Aneth, Utah

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drilg. line, if any)  
 280'

16. No. of acres in lease

17. No. of acres assigned to this well

18. Proposed depth  
 6299' AKAH

19. Rotary or cable tools  
 Rotary

20. Approx. date work will start  
 May 19, 1992

21. Elevations (Show whether DF, RT, GR, etc.)  
 5236' GR/ 5249' KB

## PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4	8 5/8	24ppf	500'	k-55, 371 sx
7 7/8	5 1/2	15.5ppf	5450'	K-55.

SEE ATTACHED FOR 10 POINT DRILLING PLAN AND DETAILED DRILLING PROGRAM

RECEIVED

MAR 26 1992

DIVISION OF  
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signature *By A. White* Title Operations Manager Date 3-10-92

(This space for Federal or State office use)

APR NO. 43-037-31680

Approval Date

Approved by  
Conditions of approval, if any:

Title

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 6-2-92

BY: *Matthew*

WELL SPACING 649-3-3

\*See Instructions On Reverse Side

**CONFIDENTIAL**

**RECEIVED**

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SEP 17 1992

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other \_\_\_\_\_  
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

3. NAME OF OPERATOR  
Chuska Energy Company

4. ADDRESS OF OPERATOR  
3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 330' FSL & 280' FWL  
At top prod. interval reported below Same  
At total depth Same

14. API NO. 43-037-31680 DATE ISSUED 6-2-92

15. DATE SPUNDED 8-22-92 16. DATE T.D. REACHED 9-3-92 17. DATE COMPL. (Ready to prod.) 9-4-92 (Plug & Abd.) 18. ELEVATIONS (OF. RES. RT. GR. ETC.) 5249kb 5236gr

20. TOTAL DEPTH, MD & TVD 6160' MD & TVD 21. PLUG BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL. HOW MANY - 23. INTERVALS DRILLED BY - ROTARY TOOLS Yes CABLE TOOLS No

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)  
NONE

28. TYPE ELECTRIC AND OTHER LOGS RUN *cyberlog 9-9-92*  
DLL/MSFL/GR/CFL CNL/FDC/LDT BHC/CAL/GR CBC/CCL/GR 27. WAS WELL CORED YES ☒ NO ☐ (Submit analysis)  
GR DRILL STEM TEST YES ☒ NO ☐ (See reverse side)

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	23.0	428	12 1/4	300 sxs CL'G' & 2% CaCl <sub>2</sub> & 1/4# sx celloflake	

30. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)

31. PERFORATION RECORD (Interval, size and number)

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION  
DATE FIRST PRODUCTION P&A PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) NONE WELL STATUS (Producing or shut-in)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *Ray A. Williams* TITLE Operations Manager DATE 9-9-92

See Spaces for Additional Data on Reverse Side

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES:			38. GEOLOGIC MARKERS		
Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.					
Formation	Top	Bottom	Description, contents, etc.	Name	Meas. Depth True Vert. Depth
Core #1	5905	5937	Cut 32 <sup>1</sup> / <sub>2</sub> Rec. 27'. Upper Ismay anhydrite & dolomite	Entrada	855
P&A				Navajo	1275
Plug #1	5836	6162	% Excess	Chinle	1891
#2	4860	4960	100	DeChelly	3031
#3	2980	3080	100	Hermosa	4908
#4	1840	1940	100	Upper Ismay	5836
#5	1225	1325	100	Lower Ismay	5968
#6	375	475	100	Desert Creek	6062
#7	0	50	50	Chimney Rock	6134
				Akah	6162